



INTEROFFICE MEMORANDUM

DATE:

March 26, 1997

TO:

S.M. Nesta V

FROM:

Greg Sollner, Environmental Compliance and Management, Compliance and

Performance Assurance (EC&M, C&PA), Bldg. T130C, x3541

SUBJECT:

REVIEW OF PROJECT TO DECOMMISSION SITE BUILDINGS AND

REVIEW OF DECOMMISSIONING BUILDINGS 980, 968 AND 965.

Upon review of the checklist for the decommissioning of the 980, 968 and 965 buildings, there is a concern with the "No" response regarding the creation of TSCA regulated waste.

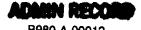
The "No" indication appears to be qualified, however the note is unclear. Furthermore, a review of the draft decommissioning program plan failed to identify the potential for PCBs in the Decommissioning Process Flow, section 5.3 "Reconnaissance Level Characterization" and the "Expected Contaminants" section 3.2 only identifies electrical transformers with respect to PCBs. The presumption that PCBs do not existence at this point is premature. Thus, the Environmental checklist for buildings 980, 968 and 965 and the Decommissioning Program Plans are currently unacceptable with respect to TSCA PCB waste characterization.

Current data indicates that certain paints, electrical cable insulation, adhesives, and soft rubber items such as gaskets, o-rings, etc. potentially contain PCBs. Characterization of these items at the RFETS has not occurred in the past, but must now be addressed given recent findings at the DOE Savannah River Site (SRS) and a recent U.S. EPA interpretive memorandum, "Disposition of Surfaces Covered with PCB Containing Coatings", dated February 21, 1997.

The SRS has sampled and found PCBs in paint, in structural steel and administrative walls, electrical components and telephone cable. One particular paint sample from a shower stall revealed PCBs in the range of 22,000 ppm to 58,000 ppm. A briefing from Westinghouse Savannah River Company (WSRC) Senior Counsel, Environment (Attachment 1) summarizes some of this data. Additionally, Attachment 2 is a copy of a sampling strategy for excess equipment at the SRS which I obtained from Mr. David Ward, SSOC. Mr. Ward is monitoring developments and details relative to WSRC management of these PCB wastes.

The above cited USEPA interpretive memorandum (Attachment 3) essentially validates the SRS sampling and analytical strategy for determining the presence of PCBs. The USEPA states "While the TSCA PCB regulations do not require any coatings be tested for the presence of PCBs, such testing is advisable when PCBs are suspected since parties are responsible under TSCA for compliance with use and disposal requirements whether or not they are aware of their presence." This memorandum discusses disposal options for metal surfaces with PCB coatings and further addresses PCB coated non-metal materials. "Disposal of concrete or other non-metal surfaces with PCB coatings, such as paint, must also be in accordance with the general rules applicable to the disposal of non-liquid PCBs."

The RFETS Decommissioning Program Plan as well as any project or program where waste will be generated which may potentially contain PCB contaminates (e.g. the decommissioning of 980, 965 and 968) must recognize the potential for the existence of PCB contaminates, and specifically address the strategy for characterization where PCBs are suspected.



S.M. Nesta March 26, 1997 Page 2

Kaiser-Hill EC&M C&PA has initiated efforts to disseminate the available data through the Environmental Leadership Team meetings and in a meeting held on February 25,1997 with RMRS Environmental Management and representatives of RFETS D&D programs.

Attachments

As stated

α

K. North	KH
F. Phillips	KH
R. Nininger	KH
J. Wrapp	KH
P. Ervin	KH
L. Brooks	KH
B. Evans	KH
G. Konwinski	RMRS
G. Engelmann	RMRS
P. Edrich	RMRS
T. Benton	WSI
R. Sgrignoli	DCI
B. Wierzbicki	SSOC
D Ward	SSOC

PCB Contaminated Materials

Ann R. Gough Senior Counsel, Environment

Polychlorinated biphenyls (PCBs)

- Part of an extensive series of synthetic organic chemicals known as chlorinated hydrocarbons
- PCBs are regulated under the Toxic Substances Control Act (TSCA).
- TSCA regulations provide a comprehensive framework for the control of PCB manufacture, distribution in commerce, use, storage and disposal and stringent requirements regarding the use and management waste/non-waste PCBs and PCB equipment.
- TSCA is a federally run program.

PCBs in paint

- PCBs were in paints manufactured prior to 1982
- According to DOD, their research has indicated that commercial use of PCBs in paints/coatings was most prevalent in the late 1950s and 1960s.
- Generally, they were the premium grades of paint, often special military specifications or special purpose uses.
- Known applications include the following:
 - flexible coatings used in high thermal heat environments or where thermal cycling or fluctuations were a concern
 - waterproofing
 - fire resistance
 - extreme chemical resistance (e.g. laboratory hoods and sinks; chemical storage areas)

Known applications continued...

- concrete paints in general
- structural steel
- stucco/masonry materials and asbestos surfaces such as siding, roofing and wallboard
- military specification paint used in system piping, system components and associated, equipment (e.g. valves, heat exchangers, pumps, electrical cabinets, etc....)
 - processing/holding tanks

- Other solids containing PCBs include the following:
 - electrical cable insulation in applications where fire resistance would have been an important design criteria
 - soft rubber items such as gaskets, o-rings used in assembly of electrical components, etc....
- adhesive coating on ventilation gaskets in HVAC systems
 - adhesives
 - lagging cloth/paste
- sheet rubber and rubber channel banding material used in cable ways, pipe hanger liners and isolation mounts
 - double sided adhesive tape

- Other uses include:
 - Asbestos roofing and siding materials manufactured by H. H. Robertson (circa 1917) and marketed as Robertson Protected Metal and Galbestos--multilayered steel siding materials consisting of steel, asphalt, or zinc; asphaltimpregnated asbestos felt; and an asphaltic waterproofing coating
 - Wool felt for sound dampening (submarines)

ISSUES

- Disposal
- Distribution in Commerce
- Unauthorized use

Disposal

- 40 CFR 761.60(4)--any non-liquid PCBs at concentrations of 50 ppm or greater in the form of contaminated soil, rags or other debris.
- Options for disposal are limited to incineration or disposal in a chemical waste landfill.
- Options are considerably more limited when have radioactive contaminated PCB materials.

Distribution in Commerce

- Processing or distribution in commerce of any PCB or PCB item, regardless of concentration, that is not specifically authorized is prohibited
- level of detection: 2 ppm
- Affects the resale/reuse/recycling of materials such as equipment that have painted surfaces contaminated with PCBs.

Anti-dilution rule

- The deliberate dilution of PCB materials assumed to contain PCBs at a concentration of 50 ppm with PCB-free materials or low-concentration PCBs to reduce the concentration of PCBs in the resultant mixture below 50 ppm is prohibited.
- any material that has been diluted is considered to have the <u>original concentration of PCBs</u> for the purposes of the TSCA regulations.

Authorized Use

- Section 6(e)(2) of TSCA prohibits the use, manufacture, process and distribution in commerce of any PCB other than in a "totally enclosed manner" except to the extent that EPA authorizes activities in a non-totally enclosed manner or exempts the activities
 - authorization may be valid for any time period; exemption is valid for one year
- EPA has indicated that the PCB contaminated paint may be an unauthorized use.

Proposed rule, 50 Fed. Reg. 62788 (December 6, 1994), may offer relief when finalized.

• large volume PCB wastes derived from an authorized original source containing less than or equal to 50 ppm pose little environmental risk

SRS

- Based on limited sampling, WSRC has found PCBs in paint
 - HWCTR: six of seven samples had PCBs. (range: 74 ppm to 1200 ppm.)
 - 232-F: PCBs found in paint from a shower stall (22,000 to 58,000 ppm); structural steel and administrative area walls (50 to 100 ppm)
 - 772-F: Analysis of five colors of paint--no PCBs
- With respect to electrical components and other materials analyzed for PCBs:
 - 15 of 35 samples contained PCBs at regulated levels--some of these were oil-filled items, some not
 - e.g. sample of telephone cable contained 710 ppm PCBs
- WSRC is working with EPA to resolve these issues.

Attachment 2.

Westinghouse Savannah River Company
MEMORANDUM

Savannah River Technology Center

SRT-SCS-970002

Statistical Consulting Section

January 29, 1997

Joe Spears, 730-2B

Technical Reviewer:

E. P. Shine, 773-42A

Manager, Statistical Consulting Section:

R. Cary Tuckfield, 773/42A.

SUBJECT: SAMPLING STRATEGY FOR EQUIPMENT IN 320-M AND 321-M JOB NO. 97023

SUMMARY:

Before equipment previously used in the 320-M or 321-M processes can be excessed, a determination of the PCB concentration in the paint must be made. Equipment manufactured after 1982 is assumed to be free of PCB and was not included in the sampling program. All remaining equipment to be excessed at this time was included in the sampling population. Each piece of equipment was placed in a stratum depending on the manufacturer, the date of manufacture, the type, and color of paint. Each piece of equipment could be placed in more than one stratum depending on the number of types and colors of paint.

One 10 gram sample was selected from each stratum except when the stratum was selected for a QC sample. A probability sampling strategy was used whenever possible depending on the amount of paint and number of pieces of equipment. The 10 gram sample was a composite of approximately five 2 g subsamples or ten 1 g subsamples. Each 10 gram sample will be analyzed for total PCB's. In the event that the total is above the analytical laboratory's sample detection limit, the main contributing PCB's could be identified. Each sample is an estimate of the stratum's true average concentration of PCB.

Sampling Strategy for Equipment in 320-M and 321-M, Job No. 97023 January 29, 1997

Page 2 SRT-SCS-970002

Two additional samples were selected for Quality Control (QC) samples. For the two strata in which the QC samples were collected, twenty grams of paint were collected, composited and then split into two equal samples. Each sample will be analyzed independently by the laboratory under two different sample identification and chain of custody numbers.

Within each stratum, a one square foot grid was used to select the five (ten) subsamples. A systematic sampling scheme was used whenever possible. For the three strata in which ten subsamples were selected, the grid system did not work. The pieces of equipment were selected first with each piece having equal probability of being selected. Within the selected piece of equipment, the size of the area with the desired paint (SRS yellow, orange, and blue) was determined. If the area was larger than 3 sq. ft., then the area was grided for selection. Otherwise, the entire area was considered to be eligible for paint collection.

In addition, certain pieces of equipment with high likelihood of operator contact were swiped to determine the leachability of PCB's, if any, from the paint during use. Both extrusion presses, three furnaces (or ovens), one welder, and two lathes were swiped. The location swiped was not determined using a probability sampling scheme but was collected from the site most likely to come in contact with the operator.

SELECTION STRATEGY:

Depending on the number of pieces of equipment and painted area of the equipment in each stratum, equipment and locations within equipment were selected at random from the stratum population. Five or ten subsamples were selected from each stratum. The total sample size was 10 g of paint chips except for the two strata in which quality control (QC) samples were selected. The five or 10 subsamples were composited into one sample to be analyzed by the laboratory. If the stratum contained more than 5 (10 for the 3 strata in which 10 subsamples are to be selected) pieces of equipment, 5 such pieces were selected at random. Otherwise, paint was sampled from each piece. After selecting the pieces of equipment, no more than 5 (10) locations on the equipment were selected at random. Either 2 g or 1 g of paint was scraped from each selected location (unless the sample was selected for a QC sample, in which case the target amount was doubled.) Selecting the sample from more than one location using a random probability scheme ensures that the paint sample is representative of the entire lot of paint used for the equipment. Stratifying the paint by manufacture, date of manufacture, and color of paint ensures that estimates of the true average concentration can be made for each paint stratum.

If the total PCB concentration of the sample is less than the laboratory sample detection limit or greater than 50 ppm, no additional sampling will be done. If the concentration of PCB is above detection but less than 2 ppm, an additional sample or samples may be taken to estimate the variability and permit confidence intervals to be computed which will include the true average concentration unless over 50% of the eligible surface paint within the stratum was collected. If the concentration of PCB exceeds 2 ppm but is less than 50 ppm, then depending on the usage and amount of paint already collected, additional samples may be taken to estimate the variability and compute confidence intervals.

In addition to the manufacturer's paint, SRS has added yellow and/or orange safety/cantion paint to certain areas and blue paint to electrical components on the equipment. SRS uses the same yellow, orange, and blue paint for all equipment throughout the site. Thus, estimates from the equipment included in this sampling population can be combined with estimates

obtained from other samples of the same type of SRS paint. SRS does not generally add enough of the safety (yellow and orange) and/or blue electrical paint on any piece of equipment to get a 10 g sample. All equipment with yellow SRS safety paint were placed in a stratum and a random sample of 10 pieces was selected and 1 g of yellow paint was scraped from each selected item. If the piece of equipment had more than one area painted yellow, the locations to be scraped were selected using random probability sampling. The same process was used for the stratum of equipment with orange paint and the stratum with blue paint.

The sampling strategy ensures that each type of paint will be sampled and that each sample will be representative of the average concentration of PCB's in the paint. If additional estimates of variability are required, additional samples will be collected. The QC samples can also be used as an estimate of variability.

Most of the strata contained only one piece of equipment or one piece with a second smaller auxiliary piece. For only the three SRS strata (yellow, orange, and blue) and for one manufacturer's stratum, were there more than 5 pieces of equipment. In all other strata, paint was sampled from each piece of equipment.

Swipe samples were also collected from equipment to determine if any PCB's in the paint could leach under operator contact. Equipment most likely to come in contact with an operator and most likely to have PCB's include the two extrusion presses and three furnaces. These five pieces of equipment were swiped. In addition, one welder and two lathes were swiped. The locations of the swipe sample within each piece of equipment was not determined using a probability sampling scheme but was selected from the area most likely to come in contact with the operator.

SAMPLE SELECTION:

Attached are the sample selection directions and log-sheets.

Table I describes the strata and the equipment sampled with the color of paint. The figures in the appendix depict the sampling locations within each piece of equipment. All equipment in the strata were sampled except for strata 21, 25 and 26. A equal probability sample of equipment was chosen for these three strata.

It was estimated that a one sq. ft. area would yield approximately 8 to 10 g paint chips depending on the thickness of the paint. A grid of 1 sq. ft. was used to select the subsamples from the equipment. The grid had to be loosely applied as the equipment was not rectangular. Selected grid intervals sometimes included void, unsafe, inaccessible, or small areas less than 1 sq. ft. When this occurred, the location selected was adjusted somewhat to allow a 1 sq. ft. painted accessible area with no safety hazards to be defined. For safety concerns, certain areas of the equipment had to be omitted from the sampling frame. These areas were areas reachable only by a ladder or requiring crawling over/under other equipment, areas with lots of wires, areas soiled with oil, or areas in which it would be difficult to scrape (some backs, sides, and tops). For railings and long narrow places, a three foot area was used for a grid. For the three strata (24 through 26), there was generally only a small amount of paint to be collected on any one piece of equipment. Thus I g samples were selected from ten pieces of equipment. If the area was large enough, a 1 sq. ft. grid was used. Otherwise, the entire area was selected in the hope that a 1 g sample could be obtained. Both extrusion presses have their own ladder and the top of the presses were eligible for sampling. EP111 has the top painted while EP252 did not except for SRS yellow on the railing. Both had motors and pumps sitting on top of the press.

The motors and pumps on both presses were eligible for sampling was were the railings on both presses and the floor baseboard for EP111. The painted floor on top of EP111 could not be scraped since it was constructed of wire mesh.

Two samples were also selected for QC samples. These were stratum 21, the controller cabinets in 321-M for the EP111 extrusion press and the SRS orange paint stratum 25. Twenty gram samples were selected, composited and split into two equal sized samples and sent to the laboratory for analyses under separate sample identification numbers. For stratum 21, five 4 g samples were collected and for stratum 25, ten 2 g samples were collected.

Eight swipe samples were collected and the leachate analyzed for PCBs.

TABLE 1: SAMPLING STRATA FOR 320-M AND 321-M EQUIPMENT

Stratum _No.	Roc No.	m EP No.	Description	Manufacturer	Paint Color
Bldg. 32	20-M		Description	Wandlawinei	COLOR
1	156	3011 3012.2		Gisholt Lathe Gisholt Lathe	green green
. 2	156	280	Lathe-Engine	Monarch Lathe	green
3	156	276	Lathe-Turret	Warner Swasey,	green
4	156	.3013	Lathe-Turret 7.5 HP Swipe sample	Gisholt	green
. 5	156	3012.3	Lathe-Turret 7.5 HP	Gisholt	green
6	156	3018	Double Acting Press (2 pieces)	Hannifin Corp.	green
7	156	20718	Welder Swipe sample —	Cecil C. Peck Co.	green
8	156		Welder Control Panel Welder	Hameschfeger	yellow
.9	157	252	Extrusion Press Swipe Sample	Watson-Stillman	green/ lossy green
10	157	158	Controller Cabinets	Lindberg	gray
11	157	158	Lindberg Billet Heater Swipe sample	Lindberg Furnace	green
12	157	252	Controller cabinets	2 color	s of green
· 13	157	252	Motors, pumps on top of 252 See attachment 4. Sample 2 a selected side or top.	Extrusion Press g. from each motor, pu	Gray unp on the
14	157	252	Console	ŧ	oluish gray
15	157	2.55	Recorder Heat Furnace Swipe Sample	Brown Fintube Co.	green
16	157	255.2	Furnace Tempering 5 HP	Lindberg-Furnace	gray
17	157	20221	Saw T-Pin	Sala Adige	green

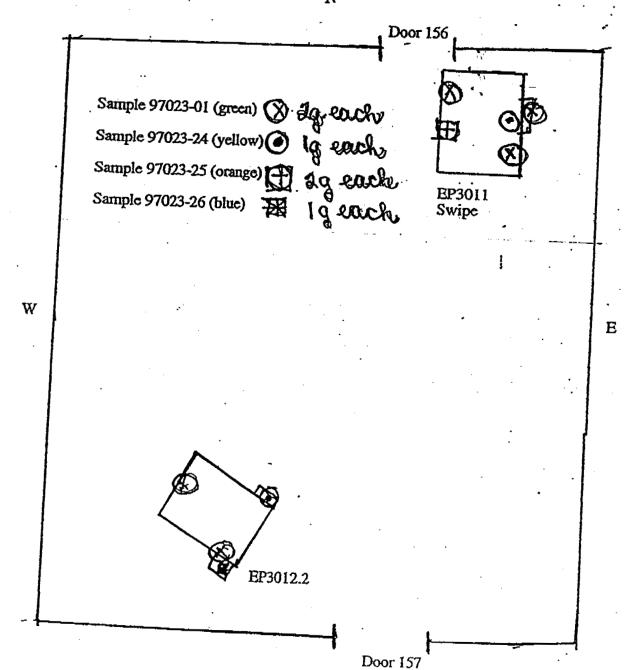
Sampling S January 29.	itralegy f 1997	or Equipme	nt in 320-M and 321-M, Job No. 97023		Page SRT-SCS-970002
18	129	20219	Lathe-Engine-Long Bed	Lehmann	gray
19 .	131	20159	Stone Saw	Stone Machine	green
Bldg. 32	1-M				
20		111	Extrusion Press 3 pumps: 150 HP model E3 10 hp model P2304c4. 4 m serial EP451, Control-Prehe DW1409. Sample only pum Swipe Sample	otors: Mandrel Positionat, 7723-3520, and co	oning, 75 hp.
21		111.03	Cabinets Cabinets to be sampled: 1: It 440 V, 3 hp PDP 3 Cir, Wes EP513.03, 440 V, 3: Starte KVA 440 V 3 hp PDP3 Cir Panel 30 KVA 440 v 3 hp Pl hp PDP 3 Cir 3. Not sampled: Die Heater 20 Extrusion Press Hydraulic C Hydraulic pump 440 v 3 hp Quality Control Sample (col	stinghouse, 2: PDP 31 or for 10 HP Press Con 4, 4: Hydraulic Pump DP 3 Cir 4, 5: Contain KW 440 V, 3 hp PDI Controls (Oilgear), and PDP 3 Cir 2.	extrusion Press atrol Panel 30 press control her Heater 440 v 3 P 3 Cir 7, Starter 175 hp
			each).	ect 20 g sample over .	, subsampios, 4 g
22		20169	Oven Swipe Sample	Dispatch Industries	gray
23			Crane	•	gray
Over bot	h baild	lings		•	
24			Collect 1 g samples from (1 EP3013, (5) EP3012.3, (6) 321-M, (9) Crane, Bldg. 32 (Sample all in stratum, 1 g ex	EP3018, (7) EP252, (8 1-M, and (10) EP111,	8) RE20169 Bldg.
25			Collect 2 g samples from (1 (4) EP3018, (5) EP20718, (EP20219, (10) EP20169, BI (Unsampled in stratum: EP EP276) Quality Control Sample (Coeach).	6) EP20221, (7) EP25 ldg. 321-M 111, EP3012.2,EP 30	55, (8) EP158, (9) SRS orange 13, and
26		٠.	Collect 1 g samples from (1 EP3012.3, (5) EP3018, (6) EP20169, Bldg. 321-M, and (Unsampled in stratum: 301	EP20718, (7) EP2022 I (10) EP20159 Bldg.	1, (8) EP138, (9)

Page 7 SRT-SCS-970002

ATTACHMENT 1

BLDG. 320-M, ROOM 156, STRATUM 1 (GREEN), STRATUM 24 (YELLOW), STRATUM 25 (ORANGE), AND STRATUM 26 (BLUE)
SAMPLE NO. 97023-01 (GREEN), SAMPLE NO. 97023-24 (YELLOW), SAMPLE NO. 97023-25 (ORANGE), AND SAMPLE NO. 97023-26 (BLUE).
EQUIPMENT NOS.: EP3011, AND EP3012.2
SWIPE SAMPLE EP3011

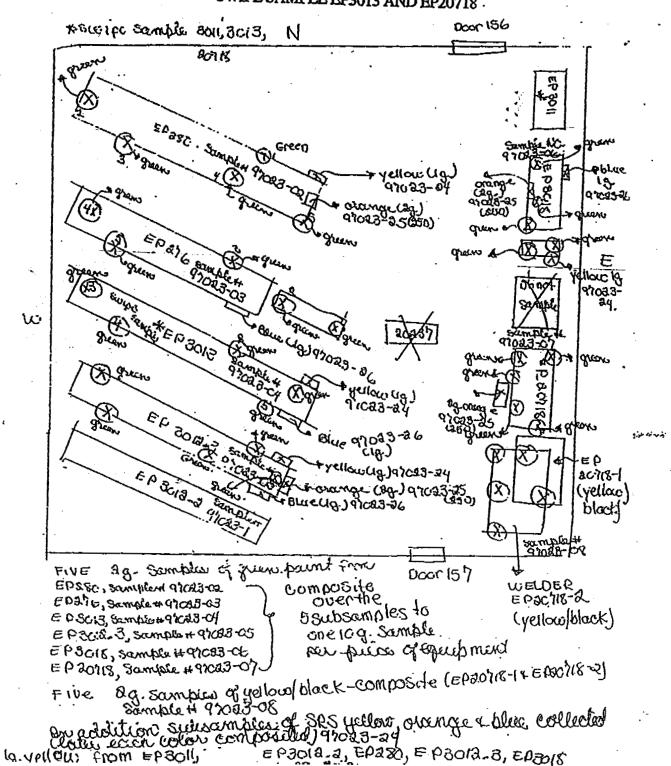
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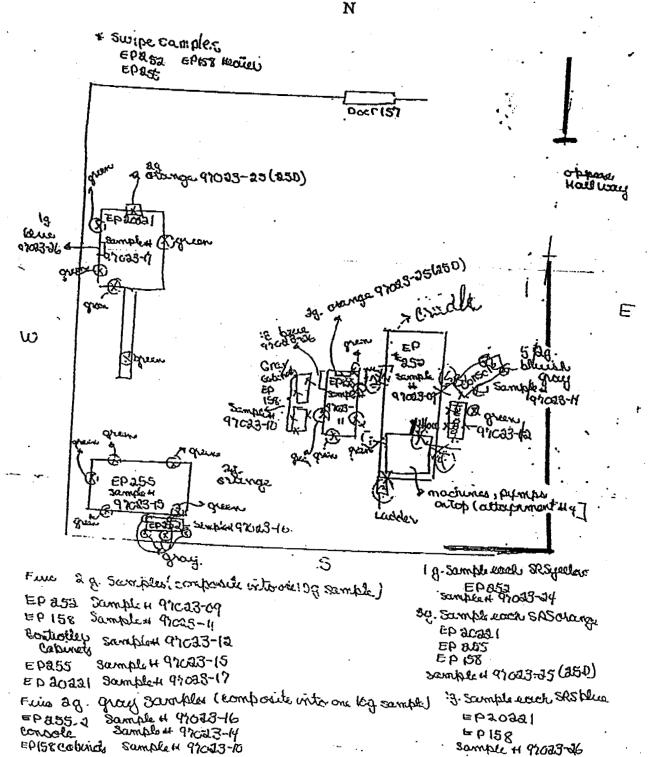
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ATTACHMENT 2

BLDG. 320-M, ROOM 156 STRATA 2 - 7 (GREEN), 8 (YELLOW), 24 (YELLOW), 25 (ORANGE), AND 26 (BLUE) SAMPLE NOS. 97023-02 THRU 07 (GREEN), 97023-08 (YELLOW), 97023-24 (YELLOW), 97023-25 (ORANGE), AND 97023-26 (BLUE) EQUIPMENT NOS.: EP280, EP276, EP3013, EP3012.3, EP3018, EP20718, EP10718-1, AND EP10718-2 SWIPE SAMPLE EP3013 AND EP20718.

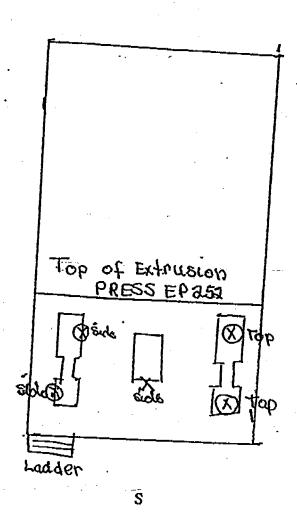


BLDG. 320-M, ROOM 156 STRATA 9-17 (EXCEPT 13), 24-26 SAMPLE NOS. 67023-09 THROUGH 67023-17, 67023-24 THROUGH 67023-26 EQUIPMENT NOS. EP252, EP158, EP255, EP255.2, EP20221, MOTORS, CONTROLLER CABINETS AND CONSOLE FOR EP252 SWIPE SAMPLE EP252, EP158, AND EP255



BLDG. 320-M, ROOM 156, STRATUM 13 SAMPLE NO. 67023-13 MOTORS AND PUMPS ON TOP OF EP252 (GRAY)

N



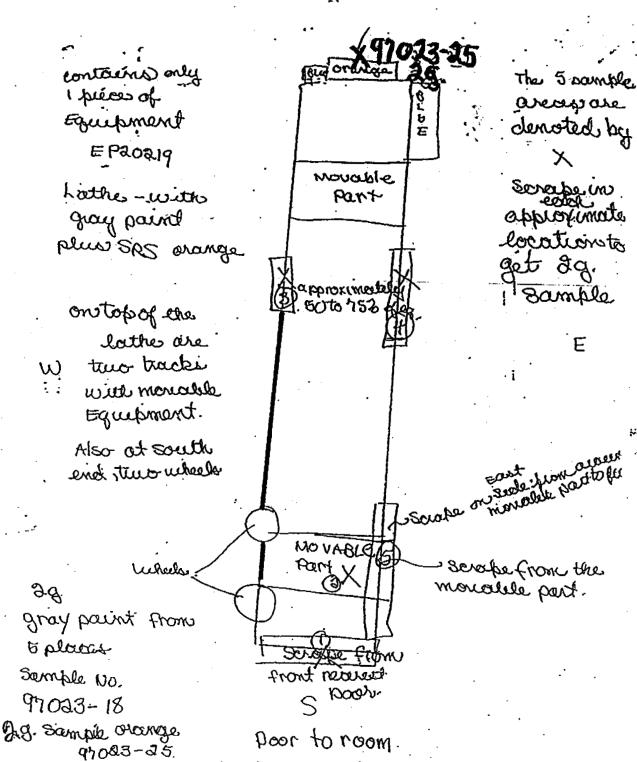
Sample Na 91003-13 gr (all shades)
5 ag. Samples
Composite into 1 10g. Sample

W

3

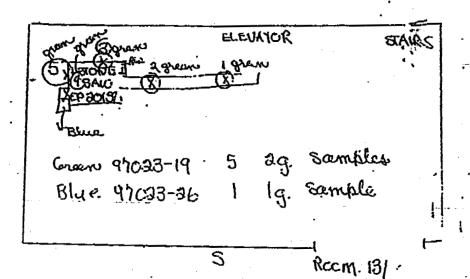
BLDG. 320-M, ROOM 129, STRATA 18 (GRAY) AND 25 (ORANGE) SAMPLE NOS. 67023-18 (GRAY) AND 67023-25 (ORANGE) EQUIPMENT NO. EP20219

N



BLDG. 320-M, ROOM 131, STRATA 19 (GREEN) AND 26 (BLUE) SAMPLE NOS. 67023-19 (GREEN) AND 67023-26 (BLUE) EQUIPMENT NO. EP20159

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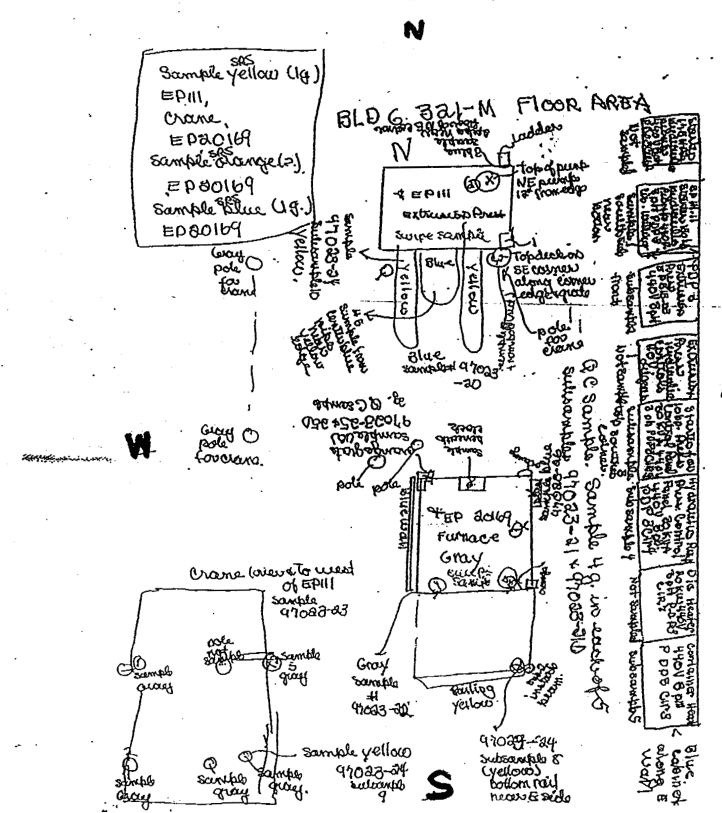


5 sq. samples grew paint from E pso:59 samples in 97083-19 (composite vito one 109 samples.

ine 19 blue pount sample 1097023-86

W

BLDG. 321-M, STRATA 20-26 SAMPLE NOS. 67023-20 THROUGH 67023-26 EQUIPMENT NOS.: EP111, EP111.03 CABINETS, EP20169, AND CRANE SWIPE NO. EP111 AND EP20169



SAMPLING STRATA AND RESULTS FOR 320-M AND 321-M EQUIPMENT

	PCBs in	(up/100cm ²)		0.76			. 1.7			N/A		4.6	0	i i		
	PCB.	(PPM)	27	•	£3	12 73	; ·	හු	%	2	11	i	88 5	<u> </u>	11	8
TNE	Paint	Color	Green Green		Green	Green Green		Green	Green	Yellow	Green/glossy green		Green	•	2 colors of green Gray	Bluish gray
INTERIOR TOTAL	, ;	Manufacturer	Gisholt Lathe Gisholt Lathe	Monemb Tothe	american regular	waner swasey Gisholt		Transfer C	Cecil C. Peck Co.	Harneschfeger	Watson-Stillman		Lindberg Furnace			
	Description		Lathe Turret 25 HP Laths Turret 7.5 HP Swipe sample EP3011	Lathe-Engine	Lathe-Turret	Lathe-Turret 7.5 HP Swipe sample	Lathe-Turret 7.5 HP	Double Acting Press (2 piesse)	Welder Swipe sample	Welder Control Panel Welder	Extrusion Press Swipe Semple	Controller Cabinets	Lindberg Billet Heater Swipe sample	Controller cabinets	Motors, pumps on top of 252 Extrusion Press See attachment 4. Sample 2 g. from each motor, pump on the selected side or top.	Console
	Ro.		3011 3012.2	280	276	3013	3012.3	3018	20718	10718-1 10718-2	252	158	158	252	262	252
	Room No.		. 156	156	156	156	156	156	156	156	157	157	157	157	157	157
	Lab		11 4	12	6	Q 64	17	18	3 23	33	13	14	t~ 10	®	36	75
i	Stratum No.	Bldg. 320-M	1 29	α	ø	30 30	وا	ဖ	31	ဆ	88	10	33	21	ដ	14

PCBs in ugfwipe	(ug/1000m²)	₹.								N/A		-					N/A
PCB	28		62	22	280	13	,	∞ ⊷.			23.8			•		2.0** 0.12	9.0
Paint	Green	į	Gray	Green	Gray	Green	i	Biue			Blue .					Gray	Gray
Manifordinam	Brown Fintube Co.	I in them II	Goto A street	Tohman	remmann	Stone Machine	किएक सिमंद	ממינים לאו ופ			γA					Dispatch Industries	
Description	Recorder Heat Furnace . Swips Sample	Furnace Tempering 5 HP	Saw T-Pin	Lathe-Engine-Long Bed	Stone Saw	•	Extrusion Press	3 pumps: 150 HP model EY-15025, 75 hp model BY-8025, and 10 hp model P2304c4. 4 motors: Mandrel Positioning, 775 hp, serial EP451, Control-Praheat, 7723-3520, and control-die heat DW1409. Remain col.	pump on northeast edge.	Caltineta	Cabinets to be sampled: 1: EP111.11 Starter 150 hp hydraulic pump 440 V, 8 hp PDP 8 Cir, Westinghouse, 2: PDP 8 Extrusion Press EP518.08, 440 V, 8: Starter for 10 HP Press Control Panel 80 KVA 440 V 8 hp PDP8 Cir. 4, 4; Hydraulic Pump press control Panel 80 KVA 440 V 8 hp PDP8 Cir. 4,	D: Container Heater 440 v 3 hp PDP 3 Cir 3. Not sampled: Die Heater 20 KW 440 V 3 hr. pro 5 m. 7.	Extrusion Press Hydraulic Controls (Offgear), and Starter 175 hp Hydraulic pump 440 v 3 hp PDP 3 Gr 2. On sitte	Control Sample (collect 20 g sample over 5 subsamples, 4 g each)		Oven Swipe Sample	Grane
No.	255	255,2	20221	20219	20159		111	2		111.03						20169	
Room No.	157	157	167	129	131										Dupl.		
Lab	15 6	16	19	20	21	٠.	33		88	34				-	33	31	32
Stratum No.	34	16	17	. 18	19	Bldg. 321-M	20		32	21	•		· .		&	3.53	ន

						• .		
PCBs fn	ug/wipe (ug/100cm ²)		, .			•		
į	PCB PPM PPM	, i o		16		8.7		
170	Color	SRS Yellow		SRS Orange		SRS Bine		
	Manufacturer		•			•		
Donata	meadupage	Collect 1 g samples from (1) EP3011, (2) EP3012.2 (3) EP280, (4) EP3013, (5) EP3012.3, (6) EP3018, (7) EP252, (8) EP20169 Bidg. 321-M, (9) Crana, Bide. 321-	all in stratum, 1 g each) Collect 2 g samples from (1) when the	EP280, (3) EP2012.3, (4) EP2013, (5) EP20718, (6) EP20718, (6) EP20231, (7) EP255, (8) EP168, (9) EP20219, (10) EP20169, EP36.2.M (Unsampled in stratum: EP111, EP2012.3, EP 2012.	Quality Control Sample (Collect 20 g sample, 10 subsamples, 2 g each).	Collect 1 g samples from (1) EP3012.2, (2) EP276, (3) EP3013, (4) EP3012.3, (5) EP8018, (6) EP20718, (7) EP20221, (8) EP158, (9) EP20169, Bldg. 321-M, and (10)	(Unsampled in stratum: 3011, 280).	
% ₽.				٠.				
Room No.								
Lab Sample	mildings	25	8		27	. 56	Below detection limit	*
Stratum No.	Over both buildings	24	52		27**	88	Below det	Duplicates



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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OPPICE OF
PREVENTION, PESTICIDES AND
TODO SUBSTANCES

MEMORANDUM

SUBJECT:

Disposal of Surfaces Covered With PCB Containing Coatings

FROM:

John W. Melone, Director

Chemical Management Division (7407)

TO:

Regional Toxic Substances Division Directors

Recently, this Division has received questions referring to smelting coated (i.e., painted) metal surfaces or smelting metal surfaces from which coatings have been removed. There have been related questions on the disposal status of other surfaces, such as concrete, which are similarly coated. In all cases, the coatings contain PCBs. This interpretive memorandum is intended to respond to these questions.

Regulatory Status of Coated Surfaces

Coatings such as paint containing PCBs are regulated for disposal when the coating contains PCBs at concentrations greater than or equal to 50 parts per million (ppm). Coatings containing PCBs less than 50 ppm may be authorized for use, either as excluded products (at 40 CFR 761.3 and 761.20(a)(1) and (3)) or, as inadvertently generated PCBs resulting from an excluded manufacturing process (at 40 CFR 761.1(f), 761.3 and 761.20(a)(2)). Coatings containing PCBs at greater than or equal to 50 ppm are currently not authorized for use. While the TSCA PCB regulations do not require any coatings be tested for the presence of PCBs, such testing is advisable when PCBs are suspected since parties are responsible under TSCA for compliance with use and disposal requirements whether or not they are aware of their presence.

Coatings containing PCBs at greater than or equal to 50 ppm must be disposed of in accordance with the requirements of §761.60.

Interpretive Policy Letter for Metal Surfaces

On March 22, 1996, I sent an interpretive policy memorandum (attached) to the Regional Toxics Division Directors addressing the regulation for disposal of PCB articles with internal surfaces which had been drained of freeflowing liquids. The interpretive memorandum provided disposal options for the motal components of these drained articles. However, the memorandum

2

Attachment 3 p?

was not intended to address coated surfaces (metal or non-metal).

Removing PCB Coatings From Metal Surfaces Destined for Smelting.

The PCB disposal regulations do not provide a specific disposal option for metal surfaces with coatings containing PCBs at greater than or equal to 50 ppm (hereafter referred to as PCB coatings). Therefore, they are subject to the general rules applicable to non-liquid PCBs (see 40 CFR 761 §761.60(a)(4)). Three disposal options exist. The metal surfaces and coatings can be incincrated, placed in a chemical waste landfill or disposed of using an alternate method of disposal approval (AMDA) under TSCA. An AMDA, issued under §761.60(e), can be used to authorize removal of PCB coatings under §761.20(c)(5) and subsequent disposal of the decontaminated surface and related materials. Removed PCB coatings are regulated for disposal as non-liquid PCBs. Any liquids or non-liquids contaminated during coating removal (e.g. solvents, tools, containers, work clothes, etc.) are regulated as if they contain the same conceptration of PCBs as the coating material. However, they may be decontaminated and/or disposed of in accordance with an AMDA.

Metal surfaces decontaminated in accordance with the conditions of an AMDA can be authorized for smelting under an AMDA if, (1) there are no visible traces of PCB coatings and (2) it is demonstrated (using the standard wipe test as defined in §761.123) that the residuals are less than 100 micrograms PCBs per 100 square continueters of surface area. In the Agency's experience, this approach will result in no unreasonable risk.

Removing PCB Coatings from Surfaces Not Destined for Smelting

Disposal of concrete or other non-metal surfaces with PCB coatings, such as point, must also be in accordance with the general rules applicable to the disposal of non-liquid PCBs. Any surface with coatings containing PCBs may be decomminated pursuant to §761.20(c)(5), in accordance with the conditions of an AMDA, to less than 10 micrograms per 100 square continueters of surface area. The decomminated surface can then be distributed in commerce for reuse in accordance with §761.20(c)(5) and is unregulated for disposal.

Decontamination levels of greater than 10 micrograms PCBs per 100 square centimeters can be established in an AMDA (representing a site-specific spill cleanup policy) but they must be supported by a determination of no unreasonable risk to health or the environment. If decontaminated to greater than 10 micrograms per 100 square centimeters and reused, the AMDA must identify whether the material is regulated for disposal under general rules set forth in part 761 or if an alternative disposal method is established. Regions may find it most convenient to address unauthorized uses of PCB in coatings, decontamination levels for coated surfaces and subsequent disposition of decontaminated surfaces in one administrative mechanism.

Regardless of the administrative mechanism used to address surfaces with PCB coatings, sampling of decontaminated surfaces shall be in accordance with the post-eleanup verification sampling requirements in 40 CFR 761.130. Characterization sampling of coated surfaces shall be according to Regional guidance, taking into account the penetration of the coating and PCBs into

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PAGE

3

the surface. Verification of decommination of non-porous surfaces shall be done using the standard wipe test (§761.123). Verification of decommination of porous surfaces must use core samples and meet bulk material standards of less than 50 ppm at the time of disposal in other than a TSCA PCB chemical waste landfill. The proposed PCB Disposal Amendments published on December 6, 1994, would address decontamination (at §761.79) and disposal of most surfaces with PCB coarings (at §761.62). When the PCB Disposal Amendments are published as final rules, they will take precedence over this interpretive memorandum. Please direct questions concerning this memorandum to Dr. John Smith at (202) 260-3964.

Attachment

cc: PCB Regional Coordinators